

Metal Random Packing-SR (Super Raschig) Ring Type
Introduction

SR rings offer superior performance compared to traditional 50 mm metal packings due to their open structure, which results in significantly lower pressure drop and higher capacity, especially under increased liquid loads. They also demonstrate up to 14% better separation efficiency, as shown in ammonia absorption tests. Their lightweight design reduces the need for heavy support structures, while the unique wave-shaped geometry prevents entanglement, allowing for easy installation and removal. Additionally, they are well suited for use with liquids containing solids.

ESP R-Rings Specification

Size	Surface Area	Void Fraction	Quantity
Nominal	(m ² /m ³)	(%)	(Pcs./m ³)
0.1	490	95	559873
0.3	315	97	186523
0.5	250	96.5	144451
0.6	215	97	73942
0.7	180	97	45401
1	150	97	32019
1.5	118	98	13963
2	100	98	9321
3	80	98	4300
4	70	98	3900

Features

- Over 30% higher loading capacity.
- Nearly 70% lower pressure drop
- More than 10% improve separating efficiency.
- Open design with no protruding metal fins, preventing droplet formation
- Suitable for liquids contaminated with solid particles
- Low specific packing weight and low cost

Applications

- Fourth generation
- Petrochemical industry
- Chemical fertilizer industry
- Environmental protection
- Absorption and desorption columns
- Thermal separation processes in various industries

